

# MMS

Media Management System

[mms.technical.support@cloud-mms.com](mailto:mms.technical.support@cloud-mms.com)

<https://mms-gui.cloud-mms.com/catramms>

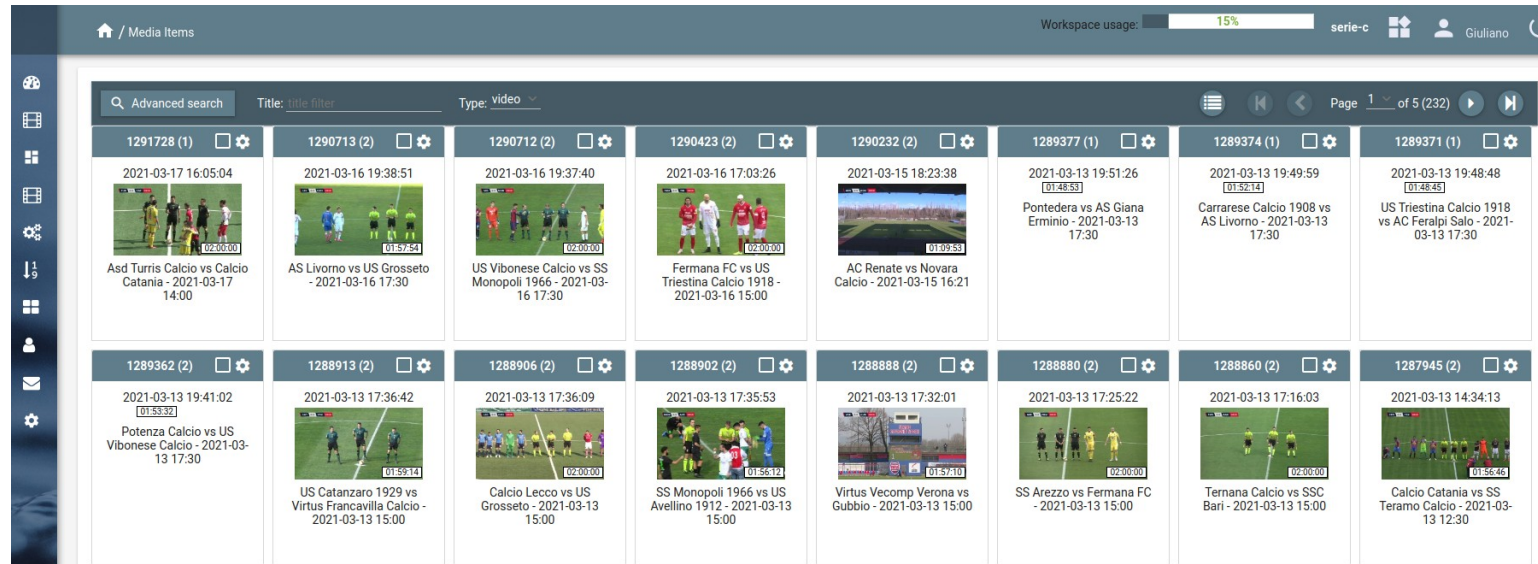
<https://app.swaggerhub.com/apis-docs/giulianoc/MediaManagementService>

# Main functionalities

- Digital Asset Management
- Workflow management
- Editing/processing functionalities
- Media Contents
- Recording application
- Transcoding engine
- Multiple interfaces

# Digital Asset Management (1/2)

- MMS is the cloud option to centralize and organize your Media Content: Video, Audio, Images
- MMS thumbnail Media Items view is very visual and easily accessible, no matter the size of your media library, MMS helps you to keep it manageable
- List view is also available to help you to sort media contents based on information such as title and upload date

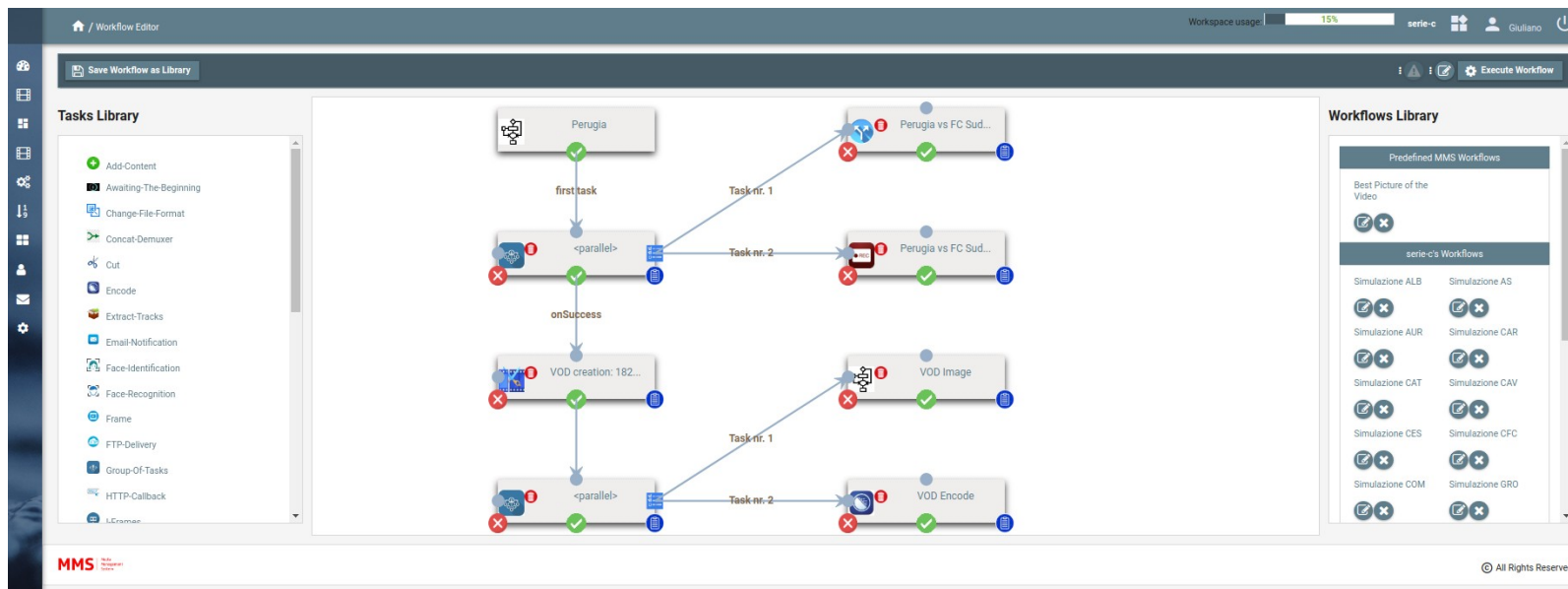


# Digital Asset Management (2/2)

- MMS does not require any IT support
- MMS allows you to group Media Contents in Workspaces. For example you might have a Workspace to save all the *News* Media Contents accessible only by the News Editorial Team, same can be done for other type of contents like Sports, ...
- Upload of Media Contents is done easily by drag and drop or providing a URL to upload the content. In caso of videos too large it is also possible to upload the content splitting it in chunks
- Metadata can be associated to each media content: title, tags, description and any user data information.
- Metadata can be used to will help you to find the media contents

# Workflow management

- Workflow defined by the user
- Library of predefined Task
- Task Library can be extendable
- Parallel execution of multiple Workflows
- Management of synchronous and asynchronous Tasks
- Definition of Workflows by API
- Definition of Workflows by Web Interface



# Editing/processing functionalities

- Video-Audio Cut and Concat (Frame Accurate)
- Image crop
- Face detection (ex: thumbnails generation) and learning
- Face recognition
- Audio extraction/Processing
- Video-Audio Slow Down
- Video Slide show
- Picture in Picture
- Overlay of image-text
- Live Mosaic
- Live Proxy
- Change file format
- Frame extraction/Processing
- Count-down video creation
- Motion JPEG
- Media Cross References
- POST on Facebook
- POST on YouTube
- FTP delivery
- HTTP callback
- Email-notification

# Media Contents

- Live Stream Cloud Ingest (UDP, RTP, SRT, RTMP, HTTP HLS, ...)
- Direct HD SDI Ingest
- H264, H265, ...
- Multi resolution ingest
- Live-VOD scalability: unlimited
- Live2VOD capabilities: use of live streams to provide VOD catch up
- Editing/Export/Publishing of Media Contents

### Upload Media Content

Load Media Content by

Choose or drag and drop the media content

✓ Uploading the file

+ Choose

Title

File name

Tags

Unique name

Retention

title

tags

unique name

retention

3d

Reset

Ingest Media Content into MMS

MMS

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# Recording application

- Easy way to record IP live feed (UDP, RTP, SRT, RTMP, HTTP HLS, ecc)
- Preview of each recording
- VOD available for editing during the recording up to 10 seconds from real time
- Scheduling of recording

The screenshot displays the MMS Recorder application interface. At the top, a header bar shows 'Recorder', 'Workspace usage: 15%', 'serie-c', and a user profile 'Giuliano'. Below the header, the main area is divided into two sections. The left section features a live video preview of a football match between Perugia and FC Sudtiroi, with the score 'PER 0-0 SUD 00:00' and a large 'PERUGIA' banner in the background. The right section contains a metadata table for the recording.

Title	Channel	Start	End	Copy URL	Created by
Perugia vs FC Sudtiroi	182521	2021-03-21 11:45:00	2021-03-21 14:30:00	<a href="#">Copy URL</a>	Giuliano

Below the main preview area is a 'Planned Recording List' section. It includes a table with columns for Key, Ingestor, Title, Channel, Start, End, and Virtual VOD. The table shows two planned recordings:

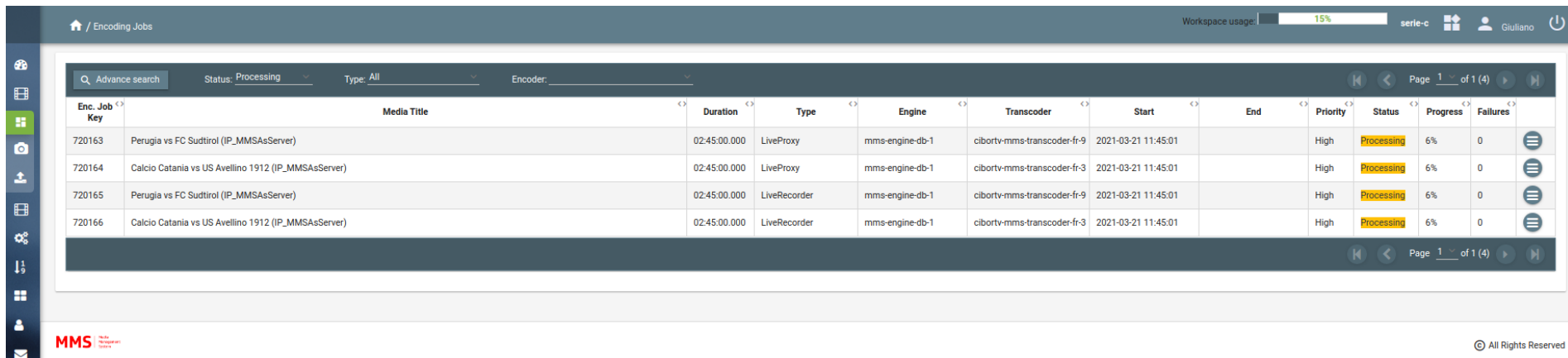
Key	Ingestor	Title	Channel	Start	End	Virtual VOD
182521	Perugia vs FC Sudtiroi	Perugia vs FC Sudtiroi				
215055	Calcio D'Amia vs US Avellino 1912	Calcio D'Amia vs US Avellino 1912				

The interface also features a sidebar on the left with various icons for navigation and a footer with the MMS logo and '© All Rights Reserved'.



# Transcoding engine

- ffmpeg open source used by default
- Possible integration with third party transcoders
- H264/H265/... Input/Output
- Management of array of transcoders
- Management of encodings by priorities
- Load balancing of Transcoders



The screenshot displays the 'Encoding Jobs' interface of the MMS system. At the top, there's a header bar with 'Workspace usage: 15%' and user information 'serie-c' and 'Giuliano'. Below the header, a search bar and filters for 'Status: Processing', 'Type: All', and 'Encoder:' are visible. The main content is a table with columns: Enc. Job Key, Media Title, Duration, Type, Engine, Transcoder, Start, End, Priority, Status, Progress, Failures, and a menu icon. Four jobs are listed, all with a status of 'Processing' and 6% progress. The footer includes the MMS logo and '© All Rights Reserved'.

Enc. Job Key	Media Title	Duration	Type	Engine	Transcoder	Start	End	Priority	Status	Progress	Failures	
720163	Perugia vs FC Sudtirol (IP_MMSAsServer)	02:45:00.000	LiveProxy	mms-engine-db-1	cibortv-mms-transcoder-fr-9	2021-03-21 11:45:01		High	Processing	6%	0	
720164	Calcio Catania vs US Avellino 1912 (IP_MMSAsServer)	02:45:00.000	LiveProxy	mms-engine-db-1	cibortv-mms-transcoder-fr-3	2021-03-21 11:45:01		High	Processing	6%	0	
720165	Perugia vs FC Sudtirol (IP_MMSAsServer)	02:45:00.000	LiveRecorder	mms-engine-db-1	cibortv-mms-transcoder-fr-9	2021-03-21 11:45:01		High	Processing	6%	0	
720166	Calcio Catania vs US Avellino 1912 (IP_MMSAsServer)	02:45:00.000	LiveRecorder	mms-engine-db-1	cibortv-mms-transcoder-fr-3	2021-03-21 11:45:01		High	Processing	6%	0	

# Multiple interfaces

- REST API: integration of all MMS functionalities
- Java MMS REST API Library
- Java MMS Workflow Library
- Secure Content delivery (token by path or parameter, TTL, max retries)
- Users' rights management (native or integration with Active Directory available)
- WEB interface